

**STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. CI-1001  
FOR  
CITY OF LOS ANGELES  
(GAFFEY STREET LANDFILL)**

**(File No. 55-018)**

**A. GROUNDWATER MONITORING PROGRAM**

**General**

1. The City of Los Angeles (City) shall conduct required monitoring and response programs in accordance with Section 20385 of Title 27 of the California Code of Regulations (27 CCR). The City shall implement a detection monitoring program per 27 CCR Section 20420. If there is an indication of a release at the site, the shall implement an evaluation monitoring program per 27 CCR Section 20425, and a corrective action program per 27 CCR Section 20430.
2. The City shall implement this monitoring and reporting Program during the first monitoring period (Reporting, Item No. 18, below) immediately following adoption of this Order.
3. The City shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation and copies of all data submitted to regulatory agencies for a period of at least five years. The period may be extended by request of the Regional Board at any time, and shall be extended during the course of any unresolved litigation regarding all or any part of the entire waste management facility.

**Sampling and Analyses**

4. All monitoring wells shall be equipped with dedicated sampling pumps.
5. All monitoring wells shall be sounded semiannually to determine total depth. Wells affected by pumping shall be measured prior to pumping, to the degree that this is possible.
6. For each monitored groundwater body, the City shall measure the water level in each well and determine groundwater flow rate and direction at least semi-annually. Groundwater elevations for all background and downgradient wells for a given groundwater body shall be measured within a period of time short enough

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to avoid temporal variations in groundwater flow which could preclude accurate determination of groundwater flow rate and direction.

7. Prior to sampling monitoring wells, the presence of a floating immiscible layer in all wells shall be determined at the beginning of each sampling event. This shall be done prior to any other activity which may disturb the surface of the water in a monitoring well (e.g. water level measurements). If an immiscible layer is found, this Regional Board shall be notified within 24 hours.
8. All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of “Guidance Establishing Test Procedures for Analysis of Pollutants,” promulgated by the Environmental Protection Agency (U.S. EPA). Proper chain of custody procedures shall be used.
9. No filtering of samples taken for organics analyses shall be permitted. Samples for organic analyses shall be taken with a sampling method that minimizes volatilization and degradation of potential constituents.
10. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer. Specific methods of analysis must be identified. If methods other than U.S. EPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Executive Officer prior to use. Laboratory analyses must meet U.S. EPA Quality Assurance/Quality Control criteria. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Regional Board.
11. All monitoring instruments and equipment which are used by the City to fulfill the prescribed monitoring program shall be properly calibrated and maintained as necessary to ensure their continued accuracy.
12. Practical quantification limits shall be below the current Maximum Contaminant Levels listed in Title 22 of California Code of Regulations or Action Levels recommended by the California Department of Health Services, whenever it is possible.
13. The following are the indicator parameters for this facility; chloride, sulfate, pH, total organic halides (TOX), chemical oxygen demand (COD), total organic carbon (TOC), and total dissolved solids(TDS).
14. Representative water samples from the compliance points shall be collected and analyzed as described below. Routine semiannual sampling and analyses of

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groundwater for the detection monitoring program shall consist of the following monitoring wells: MW-A, MW-B, MW-2, MW-3, and MW-D).

<u><b>Groundwater Monitoring Parameters</b></u>	<u><b>Units</b></u>
COD	mg/l
TOX	mg/l
TOC	mg/l
TDS	mg/l
Chloride	mg/l
Sulfate	mg/l
Boron	mg/l
Hydroxide Alkalinity (CaCO <sub>3</sub> )	mg/l
Total Hardness (as CaCO <sub>3</sub> )	mg/l
Volatile Organics	mg/l
Electrical Conductivity	µmhos/cm
pH	pH units
Groundwater Elevation	feet above mean sea level

Once each year, during the Winter/Spring monitoring period, all wells shall be sampled and these samples analyzed for:

**Groundwater Monitoring Parameters**

- Volatiles\*
- Semi-volatiles\*
- Pesticides\*
- PCB's\*
- Metals\*\*
- Biological Oxygen Demand
- Bicarbonate
- Carbonate
- Foaming Agents
- Herbicides
- Nitrate (as N)
- Nitrite
- Oil and Grease
- Sulfate
- Sulfides
- Total cyanide
- Total phenols
- Turbidity

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\*All peaks greater than 10% of the internal standard shall be identified and quantified for gas chromatography analyses.

\*\* Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Hexavalent chromium, Lead, Magnesium, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, and Zinc.

15. All metals analyses shall be for both the total metal and the dissolved phase. Duplicate samples shall be taken for constituents of concern metals analyses only. Unfiltered samples shall be tested for total metals, and field-filtered samples shall be taken for soluble metals utilizing a 0.45m filter and nitric acid; however, care shall be taken that the dissolved metals samples are not exposed to acids until after filtering.
16. Constituents detected between the method detection limits and the practical quantification limits must be reported, but may be reported as a trace. Analytical data reported as “less than...” shall be reported as less than a numeric value, or below the limit of detection for that particular analytical method.

**Reporting**

17. The first monitoring report under this program is due by October 30, 2001.
18. Monitoring reports shall be submitted to the Regional Board in accordance with the following schedule:

<u>Period</u>	<u>Sampling Date</u>	<u>Reporting Date</u>
Winter/Spring (Annual)	April - September	October 30
Summer/Fall	October – March	April 30

Monitoring reports shall be submitted to:

California Regional Water Quality Control Board  
Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, California 90013  
ATTN: Technical Services Unit

The Monitoring Report should reference File No. CI-1001 to facilitate routing to the appropriate staff and file.

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19. The semiannual/annual monitoring reports shall summarize the essential monitoring program points. The City shall submit a compliance evaluation summary of the groundwater data obtained during each semiannual/annual monitoring period. The summary shall contain a table that includes monitoring parameters, detection limits of monitoring equipment, and measured concentrations found in the current sampling event. The reports shall include a discussion of any requirement violations found since the last such report was submitted and shall describe actions taken or planned for correcting the violations. If the City has previously submitted a detailed time schedule for correcting said requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the reports.
20. By April 30 of each year, the City shall submit an annual report (included with the Winter/Spring Report) to the Regional Board that includes a thorough discussion of the compliance record for the site. In addition to tabular and graphical monitoring information, the annual report shall contain both time-series plots depicting concentration trends of routine monitoring parameters detected in groundwater and soil-pore gas samples during the previous year. The annual report shall also include the results of neutron probe soil moisture monitoring of the alternative final cover.
21. The City shall submit all monitoring data in hard copy form and also on computer diskette. In reporting the monitoring data, the City shall arrange the data in tabular form. The monitoring data submitted on diskette should be in ASCII format, and presented in a cumulative, updated form with each submittal.
22. If a well was not sampled (or measured) during the reporting period, the reason for the omission shall be given in the corresponding monitoring report. If no fluid was detected in a monitoring well, a statement to that effect (in lieu of analyses) shall be submitted.
23. Records of monitoring information in the semiannual/annual monitoring report shall include:
  - a. The date, exact place, procedure, and time of sampling or measurement;
  - b. The individual(s) who performed the sampling or measurement;
  - c. The date(s) analyses were performed on the samples;
  - d. The individual(s) who performed the analyses;
  - e. The analytical techniques or methods used;
  - f. The results of the analyses or measurements, including both statistical and non-statistical analyses;
  - g. The method detection limits;

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- h. The executive summary of the key findings;
  - i. The laboratory QA/QC data and chain-of-custody records (except for annual reports); and
  - j. The laboratory certification information.
24. For every item where the requirements of this monitoring and reporting program are not met, the City shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.
25. If the City monitors any pollutants more frequently than required by this monitoring and reporting program, using the most recent version of Standard U.S. EPA methods, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the City's monitoring report. The increased frequency of monitoring shall also be reported.
26. For any analyses performed for which no procedures are specified in the U.S EPA guidelines or in the Monitoring and Reporting Program, the constituent or parameter analyzed, and the method or procedure used, must be specified in the semiannual/annual monitoring report.
27. A report of any monitoring wells that have been decommissioned shall be included in the annual report.
28. The City may submit additional data to the Regional Board not required by this program in order to simplify reporting to other regulatory agencies.
29. Monitoring reports shall be signed by:
- a. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
  - b. In the case of a partnership, by a general partner;
  - c. In the case of a sole proprietorship, by the proprietor;
  - d. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official or other duly authorized employee.
30. Each report shall contain the following completed declaration:
- “I declare under penalty of law that I have personally examined, and am familiar with, the information submitted in this document and all

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attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (California Water Code Sections 13263, 13267, and 13268).”

Executed on the \_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

**B. SITE POST-CLOSURE MAINTENANCE PROGRAM**

The City shall perform routine inspections of the landfill site per the schedule listed in Finding No. 19(II) of Order No. 01-071 and report the results for any required inspection on a semi-annual basis on April 30 and October 30. The site post-closure maintenance report can be included semi-annual/annual groundwater monitoring reports. The report shall contain information on the site’s condition and a discussion of any significant findings with regard to:

- a. General site condition;
- b. Surface cover and slopes;
- c. Drainage facilities;
- d. Groundwater and vadose zone monitoring networks;
- e. Landfill gas control system;
- f. Observation of seepage from the site; and
- g. Maintenance activities at the site.

Ordered by \_\_\_\_\_

DENNIS A. DICKERSON  
Executive Officer  
May 24, 2001